### DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS CONSTRUCTION CODES COORDINATING BOARD

#### NOTICE OF PROPOSED RULEMAKING

The Chairperson of the Construction Codes Coordinating Board (Chairperson), pursuant to the authority set forth in section 10 of the Construction Codes Approval and Amendments Act of 1986 (Act), effective March 21, 1987 (D.C. Law 6-216; D.C. Official Code § 6-1409 (2008 Repl.)) and Mayor's Order 2009-22, dated February 25, 2009, as amended, hereby gives notice of the intent to adopt the following amendments to Title 12 (D.C. Construction Codes Supplement of 2008) of the District of Columbia Municipal Regulations, as well as to rename Title 12.

This proposed rulemaking would adopt the following codes published by the International Code Council (ICC), as amended by this rulemaking in a new District of Columbia Construction Codes Supplement of 2013, as the District of Columbia Construction Codes: the 2012 edition of the International Building Code; the 2012 edition of the International Residential Code; the 2012 edition of the International Mechanical Code; the 2012 edition of the International Plumbing Code; the 2012 edition of the International Property Maintenance Code; the 2012 edition of the International Fire Code; the 2012 edition of the International Energy Conservation Code; the 2012 edition of the International Existing Building Code; the 2012 edition of the International Green Construction Code; the 2012 edition of the International Swimming Pool and Spa Code; and the 2011 edition of the National Electrical Code (NFPA 70) published by the National Fire Protection Association.

This proposed rulemaking would repeal the D.C. Construction Codes Supplement of 2008, adopted December 26, 2008 (55 DCR 13094), consisting of the following: the 2006 edition of the ICC International Building Code; the 2006 edition of the ICC International Residential Code; the 2006 edition of the ICC International Fuel Gas Code; the 2006 edition of the ICC International Plumbing Code; the 2006 edition of the ICC International Property Maintenance Code; the 2006 edition of the ICC International Fire Code; the 2006 edition of the ICC International Energy Conservation Code; the 2006 edition of the ICC International Existing Building Code; and the 2005 edition of the National Fire Protection Association (NFPA 70) National Electrical Code.

Comments on this proposed rulemaking must be submitted by 5 p.m. on Friday, January 25, 2013. The process for submitting comments is detailed on the final page of this proposed rulemaking.

The Chairperson also hereby gives notice of the intent to take final rulemaking action to adopt this amendment. Pursuant to section 10(a) of the Act, the proposed amendment will be

submitted to the Council of the District of Columbia for a forty-five (45) day period of review, and final rulemaking action will not be taken until the later of thirty (30) days after the date of publication of this notice in the *D.C. Register* or Council approval of the amendment.

Title 12 (D.C. Construction Codes Supplement of 2008) of the District of Columbia Municipal Regulations is amended as follows:

The title of title 12 is renamed as the District of Columbia Construction Codes Supplement of 2013.

Subtitle 12 A (Building Code Supplement of 2008) is repealed in its entirety and replaced with a new Building Code Supplement of 2013.

Subtitle 12 B (Residential Code Supplement of 2008) is repealed in its entirety and replaced with a new Residential Code Supplement of 2013.

Subtitle 12 C (Electrical Code Supplement of 2008) is repealed in its entirety and replaced with a new Electrical Code Supplement of 2013.

Subtitle 12 D (Fuel Gas Code Supplement of 2008) is repealed in its entirety and replaced with a new Fuel Gas Code Supplement of 2013.

Subtitle 12 E (Mechanical Code Supplement of 2008) is repealed in its entirety and replaced with a new Mechanical Code Supplement of 2013.

Subtitle 12 F (Plumbing Code Supplement of 2008) is repealed in its entirety and replaced with a new Plumbing Code Supplement of 2013.

Subtitle 12 G (Property Maintenance Code Supplement of 2008) is repealed in its entirety and replaced with a new Property Maintenance Code Supplement of 2013.

Subtitle 12 H (Fire Code Supplement of 2008) is repealed in its entirety and replaced with a new Fire Code Supplement of 2013.

Subtitle 12 I (Energy Conservation Code Supplement of 2008) is repealed in its entirety and replaced with a new Energy Conservation Code Supplement of 2013.

Subtitle 12 J (Existing Building Supplement of 2008) is repealed in its entirety and replaced with a new Existing Building Code Supplement of 2013.

Subtitle 12 K (Fees) is redesignated as Subtitle M (Fees).

#### A new Subtitle 12 K (Green Construction Code Supplement of 2013) is added.

#### A new Subtitle 12 L (Swimming Pool and Spa Code Supplement of 2013) is added.

For purposes of clarity, the following table lists each chapter of the ICC and NFPA 70 codes amended by the District of Columbia Construction Codes Supplement of 2013:

#### SUBTITLE A – BUILDING CODE SUPPLEMENT

Chapter I	Administration and Enforcement
Chapter 2	Definitions
Chapter 3	Use Group and Classification
Chapter 4	Special Detailed Requirements Based on Use and Occupancy
Chapter 5	General Building Heights and Areas
Chapter 7	Fire-Resistance-Related Construction
Chapter 9	Fire Protection Systems
Chapter 10	Means of Egress
Chapter 12	Interior Environment
Chapter 14	Exterior Walls
Chapter 15	Roof Assemblies and Rooftop Structures
Chapter 16	Structural Design
Chapter 18	Soils and Foundations
Chapter 26	Plastic
Chapter 30	Elevators and Conveying Systems
Chapter 31	Special Construction
Chapter 32	Encroachments into the Public Right-of-Way
Chapter 33	Safeguards During Construction
Chapter 34	Existing Structures
Chapter 35	Referenced Standards
Appendix E	Supplementary Accessibility Requirements

#### SUBTITLE B - RESIDENTIAL CODE SUPPLEMENT

Chapter 1	Scope and Administration
Chapter 2	Definitions
Chapter 3	<b>Building Planning</b>
Chapter 9	Roof Assemblies
Chapter 11	Energy Efficiency
Chapter 12	Mechanical Administration
Chapter 15	Exhaust Systems

Chapter 16	Duct Systems
Chapter 24	Fuel Gas
Chapter 25	Plumbing Administration
Chapter 29	Water Supply and Distribution
Chapter 30	Sanitary Drainage
Chapter 44	Referenced Standards
Appendix H	Patio Covers
Appendix J	Existing Buildings and Structures
Appendix K	Sound Transmission
Appendix M	Home Day Care – R-3 Occupancies

#### SUBTITLE C - ELECTRICAL CODE SUPPLEMENT

Article 90	Introduction
Article 408	Switchboards and Panelboards

#### SUBTITLE D - FUEL GAS CODE SUPPLEMENT

Scope and Administration
Definitions
Chimneys and Vents
Referenced Standards

#### SUBTITLE E - MECHANICAL CODE SUPPLEMENT

Chapter 1	Scope and Administration
Chapter 2	Definitions
Chapter 4	Ventilation
Chapter 5	Exhaust Systems
Chapter 6	Duct Systems
Chapter 8	Chimneys and Vents
Chapter 9	Specific Appliances, Fireplaces and Solid Fuel-Burning Equipment
Chapter 10	Boilers, Water Heaters and Pressure Vessels
Chapter 11	Refrigeration
Chapter 15	Referenced Standards

#### SUBTITLE F - PLUMBING CODE SUPPLEMENT

Chapter 1	Scope and Administration
Chapter 3	General Regulations
Chapter 4	Fixtures, Faucets and Fixture Fittings

Chapter 6	Water Supply and Distribution
Chapter 8	Indirect/Special Waste
Chapter 11	Storm Drainage
Chapter 13	Nonliquid Saturated Treatment Systems

#### SUBTITLE G - PROPERTY MAINTENANCE CODE SUPPLEMENT

Chapter 1	Administration and Enforcement
Chapter 2	Definitions
Chapter 3	Requirements
Chapter 4	Light, Ventilation and Occupancy Limitations
Chapter 5	Plumbing Facilities and Fixture Requirements
Chapter 6	Mechanical and Electrical Requirements
Chapter 7	Fire Safety Requirements
Chapter 8	Referenced Standards

#### SUBTITLE H - FIRE CODE SUPPLEMENT

Chapter 1	Administration and Enforcement
Chapter 2	Definitions
Chapter 3	General Requirements
Chapter 5	Fire Service Features
Chapter 6	Building Services and Systems
Chapter 9	Fire Protection Systems
Chapter 10	Means of Egress
Chapter 11	Construction Requirements for Existing Buildings
Chapter 56	Explosives and Fireworks
Appendix B	Fire-Flow Requirements for Buildings
Appendix C	Fire Hydrant Locations and Distribution
Appendix D	Fire Apparatus Access Roads
Appendix H	Hazardous Materials Management Plan (HMMP) and Hazardous Materials
	Inventory Statement (HMIS) Instructions

#### SUBTITLE I – ENERGY CONSERVATION CODE SUPPLEMENT

Chapter 1[CE] Administration Chapter 4[CE] Commercial Energy Efficiency

Chapter 1[RE] Scope and Administration

#### SUBTITLE J - EXISTING BUILDING CODE SUPPLEMENT

Scope and Administration
Definitions
Prescriptive Compliance Method
Repairs
Alterations-Level 1
Alterations-Level 2
Alterations-Level 3
Change of Occupancy
Construction Safeguards

#### SUBTITLE K - GREEN CONSTRUCTION CODE

Chapter 1	Scope and Administration
Chapter 2	Definitions
Chapter 3	Green Building Act and ASHRAE 189.1
Chapter 4	Site Development and Land Use
Chapter 5	Material Resource Conservation and Efficiency
Chapter 6	Energy Conservation, Efficiency, and CO <sub>2</sub> <sup>e</sup>
Chapter 7	Water Resource Conservation, Quality and Efficiency
Chapter 8	Indoor Environmental Quality and Comfort
Chapter 9	Commissioning
Chapter 10	Existing Buildings
Chapter 11	Existing Building Site Development
Chapter 12	Referenced Standards
Appendix A	Project Electives

#### SUBTITLE L - SWIMMING POOL AND SPA CODE SUPPLEMENT

Chapter 1 Scope and Administration Chapter 2 Definitions

#### **DISTRICT OF COLUMBIA CONSTRUCTION CODES SUPPLEMENT OF 2013** 12 DCMR B RESIDENTIAL CODE SUPPLEMENT

The District of Columbia has adopted the 2012 edition of the International Residential Code (IRC), as amended by this Supplement.

#### IRC CHAPTERS AMENDED BY THIS SUPPLEMENT:

CHAPTER 1	SCOPE AND ADMINISTRATION
CHAPTER 2	DEFINITIONS
CHAPTER 3	BUILDING PLANNING
CHAPTER 9	ROOF ASSEMBLIES
CHAPTER 11	ENERGY EFFICIENCY
CHAPTER 12	MECHANICAL ADMINISTRATION
CHAPTER 15	EXHAUST SYSTEMS
CHAPTER 16	DUCT SYSTEMS
CHAPTER 24	FUEL GAS
CHAPTER 25	PLUMBING ADMINISTRATION
CHAPTER 29	WATER SUPPLY AND DISTRIBUTION
CHAPTER 30	SANITARY DRAINAGE
CHAPTER 44	REFERENCED STANDARDS
APPENDIX H	PATIO COVERS
APPENDIX J	<b>EXISTING BUILDINGS AND STRUCTURES</b>
APPENDIX K	SOUND TRANSMISSION
APPENDIX M	HOME DAY CARE - R-3 OCCUPANCIES

Strike Chapter 1 of the International Residential Code in its entirety and insert new Chapter 1 in the Residential Code in its place to read as follows:

#### CHAPTER 1 SCOPE AND ADMINISTRATION

R101 General

#### R101 GENERAL

**R101.1 General.** Administration and enforcement of the *Residential Code* shall be governed by Chapter 1 of the *Building Code*, 12 DCMR A.

#### CHAPTER 2 DEFINITIONS

R202 Definitions

#### **R202 DEFINITIONS**

Strike the definition of Third Party Certified in Section R202 of the International Residential Code in its entirety and insert a new definition of Third Party Certified in the Residential Code in its place to read as follows:

**THIRD PARTY CERTIFIED.** Product or material for which a certification was obtained by the manufacturer indicating that the function and performance characteristics of such product or material have been determined by testing and ongoing surveillance by an approved third-party certification agency. Assertion of certification is in the form of identification in accordance with the requirements of the third-party certification agency.

Strike the definition of Third Party Tested in Section R202 of the International Residential Code in its entirety and insert a new definition of Third Party Tested in the Residential Code in its place to read as follows:

**THIRD PARTY TESTED.** Product, material or system that has undergone successfully a procedure by which an approved testing laboratory provides documentation that such product, material or system conforms to specified requirements.

#### CHAPTER 3 BUILDING PLANNING

R301 Design Criteria R319 Site Address

#### **R301 DESIGN CRITERIA**

Strike Table R301.2(1), Climatic and Geographic Design Criteria, in the International Residential Code in its entirety and insert new Table R301.2(1) in the Residential Code in its place to read as follows:

#### TABLE R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND	WIN	D DESIGN	SEISMIC	SUBJECT TO DAMAGE FROM			WINTER	ICE BARRIER		AIR	
SNOW LOAD	Speed <sup>d</sup> (mph)	Topographic effects <sup>k</sup>	DESIGN CATEGORY f	W Caulci ing	Frost line depth <sup>b</sup>	Termite <sup>c</sup>		UNDERLAY- MENT REQUIRED <sup>h</sup> FLOOD HAZARDS <sup>g</sup>		FREEZING INDEX <sup>i</sup>	MEAN ANNUAL TEMP <sup>j</sup>
25	90	Na	A	M	30	М-Н	17	N	(a) November 15, 1985. (b) November 15, 1985; September 27, 2010. (c) All current FIRMs dated 09/27/2010; Panel numbers 110001IND0A, 1100010003C, 1100010004C, 1100010006C, 1100010011C, 1100010011C, 1100010014C, 1100010016C, 1100010016C, 1100010037C, 1100010038C, 1100010039C, 1100010039C, 1100010039C, 1100010041C,	500	55

				1	100010043C <u>,</u>	
				1	100010056C,	
				1	100010057C,	
				1	100010058C,	
				1	100010059C,	
				1	100010066C,	
				1	100010067C,	
				1	100010076C,	
				1	100010077C and	
				1	100010078C.	

For SI: 1 pound per square foot = 0.0479 kPa, 1 mile per hour = 0.447 m/s.

- a. Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code. The weathering column shall be filled in with the weathering index (i.e., "negligible," "moderate" or "severe") for concrete as determined from the Weathering Probability Map [Figure R301.2(3)]. The grade of masonry units shall be determined from ASTM C 34, C 55, C 62, C 73, C 90, C 129, C 145, C 216 or C 652.
- b. The frost line depth may require deeper footings than indicated in Figure R403.1(1). The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.
- c. The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite damage.
- d. The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [Figure R301.2(4)A]. Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4.
- e. The outdoor design dry-bulb temperature shall be selected from the columns of 97<sup>1</sup>/<sub>2</sub>-percent values for winter from Appendix D of the *International Plumbing Code*. Deviations from the Appendix D temperatures shall be permitted to reflect local climates or local weather experience as determined by the building official.
- f. The jurisdiction shall fill in this part of the table with the seismic design category determined from Section R301.2.2.1.
- g. The jurisdiction shall fill in this part of the table with (a) the date of the jurisdiction's entry into the National Flood Insurance Program (date of adoption of the first code or ordinance for management of flood hazard areas), (b) the date(s) of the Flood Insurance Study and (c) the panel numbers and dates of all currently effective FIRMs and FBFMs or other flood hazard map adopted by the authority having jurisdiction, as amended.
- h. In accordance with Sections R905.2.7.1, R905.4.3.1, R905.5.3.1, R905.6.3.1, R905.7.3.1 and R905.8.3.1, where there has been a history of local damage from the effects of ice damming, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall fill in this part of the table with "NO."
- i. The jurisdiction shall fill in this part of the table with the 100-year return period air freezing index (BF-days) from Figure R403.3(2) or from the 100-year (99 percent) value on the National Climatic Data

Center data table "Air Freezing Index-USA Method (Base 32 °F)" at <a href="www.ncdc.noaa.gov/fpsf.html">www.ncdc.noaa.gov/fpsf.html</a>.

j. The jurisdiction shall fill in this part of the table with the mean annual temperature from the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32 °F)" at www.ncdc.noaa.gov/fpsf.html.

k. In accordance with Section R301.2.1.5, where there is local historical data documenting structural damage to buildings due to topographic wind speed-up effects, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall indicate "NO" in this part of the table.

Strike Section R319, Site Address, in the International Residential Code in its entirety and insert new Section R319 in the Residential Code to read as follows:

#### **R319 SITE ADDRESS**

**R319.1 Address Numbers.** *Premises* shall comply with the provisions set forth in Section 118, 12 DCMR A, governing street numbering and addresses.

#### CHAPTER 9 ROOF ASSEMBLIES

R908 Cool Roof Requirements

Insert new Section R908 in the Residential Code to read as follows:

#### **R908 COOL ROOF REQUIREMENTS**

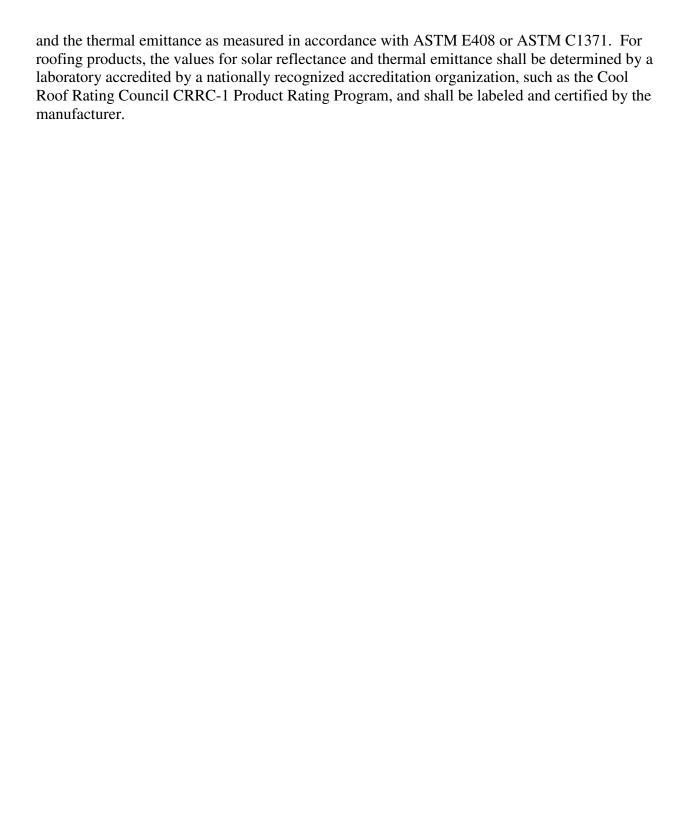
**R908.1 General.** Roof coverings for roof slopes less than or equal to two units vertical in 12 units horizontal (17 percent slope or less) for buildings and covered parking shall conform to this section. A minimum of 75 percent of the entire roof surface not used for roof penetrations, renewable energy power systems (e.g., photovoltaics or solar thermal collectors), harvesting systems for rainwater to be used on-site, or green roofing systems shall be covered with products that comply with one or more of the following:

- 1. Have a minimum three-year-aged Solar Reflective Index (SRI) of 64.
- 2. Comply with the criteria for roof products as defined in "ENERGY STAR® Program Requirements, Product Specification for Roof Products, Eligibility Criteria."

#### **Exceptions**:

- 1. Building projects where an annual energy analysis simulation demonstrates that the total annual building energy consumption with the proposed roof is 2 percent less than it would be with a roof having a three-year-aged SRI of 64.
- 2. Roofs used to shade or cover parking and roofs over semi-heated spaces or used as outdoor recreation space by the occupants of the building shall be permitted to be either landscaped or have a minimum initial SRI of 29. A default SRI value of 35 for new concrete without added color pigment is allowed to be used in lieu of measurements.
- 3. Terraces on setbacks comprising less than 25 percent of the area of the largest floor plate in the building.
- 4. Green roofs shall be permitted to comprise part or all of the 75 percent required area coverage.

**R908.2 Solar Reflective Index.** Initial and aged values of the SRI shall be calculated in accordance with ASTM E1980 for medium-speed wind conditions, using a convection coefficient of [2.1 BTU/( $h \cdot ft^2 \cdot {}^{\circ}F$ )] or the metric equivalent [12 W/( $m^2 \cdot K$ )]. The SRI shall be based upon solar reflectance as measured in accordance with ASTM E1918 or ASTM C1549,



Strike Chapter 11, Energy Efficiency, of the International Residential Code in its entirety and insert new Chapter 11 in the Residential Code in its place to read as follows:

#### CHAPTER 11 ENERGY EFFICIENCY

**1101.1 General.** Building projects shall comply with the *Energy Conservation Code*.

Strike Chapter 12 of the International Residential Code in its entirety and insert new Chapter 12 in the Residential Code in its place to read as follows:

#### CHAPTER 12 MECHANICAL ADMINISTRATION

M1201 General

#### M1201 GENERAL

**M1201.1 General.** Administration and enforcement of Part V – Mechanical of the *Residential Code* shall be governed by Chapter 1 of the *Building Code*, 12 DCMR A.

#### CHAPTER 15 EXHAUST SYSTEMS

M1502 Clothes Dryer Exhaust

#### M1502 CLOTHES DRYER EXHAUST

Strike Section M1502.4.2 of the International Residential Code in its entirety and insert new Section M1502.4.2 in the Residential Code in its place to read as follows:

M1502.4.2 Duct installation. Exhaust ducts shall be supported at intervals not to exceed 4 feet (1219 mm) and shall be secured in place. The insert end of the duct shall extend into the adjoining duct or fitting in the direction of airflow. Exhaust duct joints shall be sealed in accordance with Section M1601.4.1 and shall be mechanically fastened. Ducts shall not be joined with screws or similar fasteners that protrude more than 1/8 inch (3.2 mm) into the inside of the duct.

#### CHAPTER 16 DUCT SYSTEMS

M1601 Duct Construction

#### M1601 DUCT CONSTRUCTION

Strike Section M1601.1.1 of the International Residential Code in its entirety and insert new Section M1601.1.1 in the Residential Code in its place to read as follows:

**M1601.1.1 Above-ground duct systems.** Above-ground *duct systems* shall conform to the following:

- 1. *Equipment* connected to *duct systems* shall be designed to limit discharge air temperature to a maximum of 250°F (121°C).
- 2. Factory-made air ducts shall be constructed of Class 0 or Class 1 materials as designated in Table M1601.1.1(1).
- 3. Fibrous duct construction shall conform to the SMACNA *Fibrous Glass Duct Construction Standards* or NAIMA *Fibrous Glass Duct Construction Standards*.
- 4. Minimum thickness of metal duct material shall be as listed in table M1601.1.1(2). Galvanized steel shall conform to ASTM A653. Metallic ducts shall be fabricated in accordance with SMACNA HVAC Duct Construction Standards Metal and Flexible.
- 5. Use of gypsum products to construct return air ducts or plenums is permitted, provided that the air temperature does not exceed 125°F (52°C) and exposed surfaces are not exposed to condensation.
- 6. *Duct systems* shall be constructed of materials having a flame spread index not greater than 200.
- 7. Stud wall cavities and the spaces between solid floor joists to be used as air plenums shall comply with the following conditions:
  - 7.1. These cavities or spaces shall not be used as a plenum for supply air.
  - 7.2. These cavities or spaces shall not be part of a required fire-resistance-rated assembly.

- 7.3. Stud wall cavities shall not convey air from more than one floor level.
- 7.4. Stud wall cavities and joist-stud plenums shall be isolated from adjacent concealed spaces by tight-fitting fireblocking in accordance with Section R602.8.
- 7.5. Stud wall cavities in the outside walls of building envelope assemblies shall not be utilized as air plenums.

Strike Section M1601.4.1 of the International Residential Code in its entirety and insert new Section M1601.4.1 in the Residential Code in its place to read as follows:

M1601.4.1 Joints, seams and connections. All longitudinal joints, seams and connections in metallic and nonmetallic ducts shall be constructed as specified in SMACNA HVAC Duct Construction Standards – Metal and Flexible and NAIMA Fibrous Glass Duct Construction Standards. All joints, longitudinal and transverse seams, and connections in ductwork shall be securely fastened and sealed with welds, gaskets, mastics (adhesives), mastic-plus-embedded-fabric systems, liquid sealants or tapes.

Closure systems used to seal flexible air ducts and flexible air connectors shall comply with UL 181B and shall be marked "181 B-FX" for pressure-sensitive tape or "181 B-M" for mastic. Duct connections to flanges of air distribution system equipment shall be sealed and mechanically fastened. Mechanical fasteners for use with flexible nonmetallic air ducts shall comply with UL 181B and shall be marked "181 B-C." Crimp joints for round metallic ducts shall have a contact lap of not less than 1 inch (25.4 mm) and shall be mechanically fastened by means of not less than three sheet-metal screws or rivets equally spaced around the joint.

Closure systems used to seal metal ductwork shall be installed in accordance with the manufacturer's instructions. Round metallic ducts shall be mechanically fastened by means of at least three sheet-metal screws or rivets spaced equally around the joint. Unlisted duct tape shall not be permitted as a sealant on any duct.

#### **Exceptions:**

1. Spray polyurethane foam shall be permitted to be applied without additional joint seals.

- 2. Where a duct connection is made that is partially inaccessible, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect.
- 3. Continuously welded and locking-type longitudinal joints and seams in ducts operating at static pressures less than 2 inches of water column (500 Pa) pressure classification shall not require additional closure systems.

#### CHAPTER 24 FUEL GAS

G2401 General

#### **G2401 GENERAL**

Strike Section G2401.1 of the International Residential Code in its entirety and insert new Section G2401.1 in the Residential Code in its place to read as follows:

**G2401.1 General.** Administration and enforcement of Part VI – Fuel Gas of the *Residential Code* shall be governed by Chapter 1 of the *Building Code*, 12 DCMR A.

Strike Chapter 25 of the International Residential Code in its entirety and insert new Chapter 25 to the Residential Code in its place to read as follows:

#### CHAPTER 25 PLUMBING ADMINISTRATION

P2501 General

#### P2501 GENERAL

**P2501.1 General.** Administration and enforcement of Part VII – Plumbing of the *Residential Code* shall be governed by Chapter 1 of the *Building Code*, 12 DCMR A.

#### CHAPTER 29 WATER SUPPLY AND DISTRIBUTION

P2902 Protection of Potable Water Supply

P2903 Water-Supply System

P2908 Drinking Water Treatment Units

#### P2902 PROTECTION OF POTABLE WATER SUPPLY

Strike Section P2902.5.4 of the International Residential Code in its entirety and insert new Section P2902.5.4 in the Residential Code in its place to read as follows:

**P2902.5.4** Connections to automatic fire sprinkler systems. The potable water supply to automatic fire sprinkler systems shall be protected against backflow by a double check backflow prevention assembly, a double check fire protection backflow prevention assembly or a reduced pressure principle backflow prevention assembly or a reduced pressure principle fire protection backflow prevention assembly.

**Exception:** Where systems are installed as a portion of the water distribution system in accordance with the requirements of this code and are not provided with a fire department connection, backflow protection for the water supply system shall not be required.

Strike Section P2902.5.4.1 of the International Residential Code in its entirety and insert new Section P2902.5.4.1 in the Residential Code in its place to read as follows:

**P2902.5.4.1** Additives or nonpotable source. Where systems under continuous pressure contain chemical additives or antifreeze, or where systems are connected to a nonpotable secondary water supply, the potable water supply shall be protected against backflow by a reduced pressure principle backflow prevention assembly or a reduced pressure principle fire protection backflow prevention assembly. Where chemical additives or antifreeze are added to only a portion of an automatic fire sprinkler system, the reduced pressure principle backflow prevention assembly or the reduced pressure principle fire protection backflow prevention assembly may be located so as to isolate that portion of the system. Where systems are not under continuous pressure, the potable water supply shall be protected against backflow by an air gap or an atmospheric vacuum breaker conforming to ASSE 1001 or CSA B64.1.1.

#### P2903 WATER-SUPPLY SYSTEM

Strike Table P2903.2 of the International Residential Code in its entirety and insert new Table P2903.2 in the Residential Code in its place to read as follows:

## TABLE P2903.2 MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES AND FIXTURE FITTINGS<sup>b</sup>

### PLUMBING FIXTURE OR FIXTURE FITTING

PLUMBING FIXTURE OR FIXTURE FITTING CONSUMPTION

Lavatory faucet Shower head<sup>a</sup> Sink faucet Water closet<sup>c</sup> 1.5 gpm at 60 psi 2.0 gpm at 80 psi 1.5 gpm at 60 psi 1.28 gallons per flushing cycle

For SI: 1 gallon per minute = 3.785 L/m, 1 pound per square inch = 6.895 kPa

- a. A handheld shower spray is also a shower head.
- b. Consumption tolerances shall be determined from referenced standards.
- c. Dual Flush Toilets The effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is defined as the composite, average flush volume of two reduced flushes and one full flush. Flush volumes will be tested in accordance with ASME A112.19.2 and ASME A112.19.14.

#### **P2908 DRINKING WATER TREATMENT UNITS**

Strike Section P2908.1 of the International Residential Code in its entirety and insert new Section P2908.1 in the Residential Code in its place to read as follows:

**P2908.1 Design.** Drinking water treatment units shall meet the requirements of NSF 42, NSF 44, NSF 53, NSF 62 or CSA B483.1.

#### CHAPTER 30 SANITARY DRAINAGE

P3005 Drainage System

#### **P3005 DRAINAGE SYSTEM**

Strike Section P3005.2 of the International Residential Code; do not strike Subsections P3005.2.1 through P3005.2.11 of the International Residential Code. Insert new Section P3005.2 in the Residential Code to read as follows:

**P3005.2 Drainage pipe cleanouts.** Drainage pipe cleanouts shall comply with Sections P3005.2.1 through P3005.2.12.

**Exception:** These provisions shall not apply to pressurized *building drains* and *building sewers* that convey the discharge of automatic pumping equipment to a gravity drainage system.

Insert new Section P3005.2.12 in the Residential Code to read as follows:

**P3005.2.12 Cleanout at property line**. A cleanout must be placed at the property line, or as close as possible to the property line, if the building wall is constructed on or beyond the property line.

#### CHAPTER 44 REFERENCED STANDARDS

#### **ASME**

American Society of Mechanical Engineers Three Park Avenue New York, N.Y. 10016-5990

Strike standard reference number ASME/A17.1-2007/CSA B44-200, and associated Title, from Chapter 44 of the International Residential Code, under subheading ASME, and insert in its place a new standard reference in the Residential Code to read as follows:

Standard reference number	Title	Referenced in code section number
A17.1-2010/ CSA B44-	Safety Code for Elevators and Escalators	R321.1
2010		

Insert a new standard reference in Chapter 44 of the Residential Code to read as follows:

#### **ASTM**

ASTM International 100 Barr Harbor West Conshohocken, PA 19428-2959

Standard	Title	Referenced in code
reference number		section number
E408-71 (2008)	Standard Test Methods for Total Normal	R908.2
	Emittance of Surfaces Using Inspection-	
	Meter Techniques	
C1549-09	Standard Test Method for Determination of	R908.2
	Solar Reflectance Near Ambient	
	Temperature Using a Portable Solar	
	Reflectometer	
C 1371-04a	Standard Test Method for Determination of	R908.2
	Emittance of Materials Near Room	
	Temperature Using Portable Emissometers	
E1980-11	Standard Practice for Calculating Solar	R908.2
	Reflectance Index of Horizontal and Low-	

	Sloped Opaque Surfaces	
E1918-06	Standard Test Method for Measuring Solar	R908.2
	Reflectance of Horizontal and Low-Sloped	
	Surfaces in the Field	

#### **CSA**

Canadian Standards Association 5060 Spectrum Way Mississauga, Ontario, Canada L4N 5N6

Strike standard reference number ANSI/CSA America FCI-03, and associated Title, from Chapter 44 of the International Residential Code, under subheading CSA, and insert in its place a new standard reference in Chapter 44 of the Residential Code, under subheading CSA, to read as follows:

Standard reference number	Title	Referenced in code section number
ANSI/CSA America FC1–03	Stationary Fuel Cell Power Systems	M1903.1

Insert a new standard reference in Chapter 44 of the Residential Code, under subheading CSA, to read as follows:

Standard reference number	Title	Referenced in code section number
B64.1.1-01	Vacuum Breakers, Atmospheric Type (AVB)	2902.5.4.1

Insert the following new referenced standard in Chapter 44 of the Residential Code to read as follows:

#### **EPA**

Environmental Protection Agency Ariel Rios Building 1200 Pennsylvania Avenue, NW Washington, D.C. 20460

Standard	Title	Referenced in code
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reference number		section number
ENERGY STAR	Energy Star Program Requirements, Product	R908.1
	Specification for Roof Products, Eligibility	
	Criteria, version 2.2 (October 2010)	

#### **NSF**

NSF International 789 N. Dixboro Ann Arbor, MI 48105

Insert a new standard reference in Chapter 44 of the Residential Code, under subheading NSF, NSF International, to read as follows:

Standard reference number	Title	Referenced in code section number
62-2007	Drinking Water Distillation Systems	2908.1

#### **SMACNA**

Sheet Metal & Air Conditioning Contractors National Assoc., Inc. 4021 Lafayette Center Road Chantilly, VA 22021

Insert a new standard reference in Chapter 44 of the Residential Code, under the subheading SMACNA, Sheet Metal & Air Conditioning Contractors National Assoc., Inc. to read as follows:

Standard reference number	Title	Referenced in code section number
SMACNA/ANSI– 2005	HVAC Duct Construction Standards-Metal and Flexible (2005)	M1601.1.1

Strike standard reference number SMACNA-10, and associated Title, under subheading SMACNA, Sheet Metal & Air Conditioning Contractors National Assoc., Inc. in Chapter 44 of the International Residential Code, and insert in Chapter 44 of the Residential Code in its place, under subheading SMACNA, Sheet Metal & Air Conditioning Contractors National Assoc., Inc. a new standard reference, and associated Title, to read as follows:

Standard	Title	Referenced in code
Standard	Title	Referenced in code
reference		section number
number		

SMACNA-03	Fibrous Glass Duct Construction Standards	M1601.1.1,
	(2003)	M1604.4.1

# APPENDIX H PATIO COVERS Appendix H, Patio Covers, of the International Residential Code is adopted in its entirety as Appendix H of the Residential Code.

#### APPENDIX J EXISTING BUILDINGS AND STRUCTURES

Appendix J, Existing Building and Structures, of the International Residential Code is adopted as Appendix J of the Residential Code with the following amendments.

AJ501 Alterations

#### **AJ501 ALTERATIONS**

Insert new Sections AJ501.8.4 and AJ501.8.5 in Appendix J of the Residential Code to read as follows:

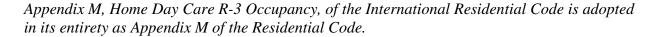
**AJ501.8.4 Riser height.** The maximum riser height of stairs being altered or modified shall be 8 ½ inches (210 mm). The riser shall be measured vertically between leading edges of the adjacent treads. The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).

AJ501.8.5 Tread depth. The minimum tread depth of stairs being altered or modified shall be 9 inches (229 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). The radius of curvature at the leading edge of the tread shall be no greater than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19.1 mm) but not more than 1 1/4 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5mm) between two stories, including the nosing at the level of floors and landings. Beveling of nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the underside of the leading edge of the tread above at an angle not more than 30 degrees from the vertical.

**Exception:** A nosing is not required where the tread depth is a minimum of 11 inches (279 mm).

# APPENDIX K SOUND TRANSMISSION Appendix K, Sound Transmission, of the International Residential Code is adopted in its entirety as Appendix K of the Residential Code.

#### APPENDIX M HOME DAY CARE R-3 OCCUPANCY



All persons desiring to comment on these proposed regulations should submit comments in writing to Helder Gil, Legislative Affairs Specialist, Department of Consumer and Regulatory Affairs, 1100 Fourth Street, SW, Room 5164, Washington, D.C. 20024, or via e-mail at ConstructionCodes@dc.gov, not later than 5 p.m. on Friday, January 25, 2013.

Comments should clearly specify which Subtitle, Chapter, and Section of the proposed District of Columbia Construction Codes they are related to.

Persons with questions concerning this Notice of Proposed Rulemaking should call (202) 442-4400. Copies of the proposed rules can be obtained from the address listed above. A copy fee of one dollar (\$1.00) will be charged for each copy of the proposed rulemaking requested.

Free copies of these proposed regulations are available on the DCRA website at http://dcra.dc.gov by going to the "About DCRA" tab, clicking on "News Room", and then clicking on "Rulemaking". Additionally, the DCRA website will list links to each of the ICC and NFPA 70 codes.